

## Patent Claims

1. Illumination unit for fundus cameras and/or ophthalmoscopes for generating a uniform illumination of the fundus by transillumination of the sclera, wherein the light emitted by the illumination source (1) is coupled into individual light-conducting fibers (3) or bundles of light-conducting fibers which extend into the area of the front lens (4) of the fundus camera and ophthalmoscope and whose fiber ends (5) are formed in such a way that the exiting light is projected on the sclera of the eye (6) to be examined and transilluminates the sclera.

2. Illumination unit according to claim 1, wherein at least one light-conducting fiber (3) or bundle of light-conducting fibers is provided and arranged in such a way that the light of the illumination source (1) transilluminates the sclera in the nasal and temporal area.

3. Illumination unit according to at least one of the preceding claims, wherein an additional pulsed light source (8) is provided for electronic and/or photographic documentation in addition to the illumination source (1) for continuous illumination of the sclera for purposes of observation, wherein the light of the continuous illumination source (1) is imaged in the focal plane of the pulsed light source (8) by optical means (9).

4. Illumination unit according to at least one of the preceding claims, wherein the ends (5) of the light-conducting fibers (3) or light-conducting fiber bundle located in the area of the front lens (4) can be moved separately or jointly independent from the position of the fundus camera.